

Computational Enhancement to Programmers

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Abstract

Computing according to laymens procedures is changed to contain a paradigm of inoptimality in the high level and assembled code. The code is changed to maximize the flow of information contained in the electrons so that they function more as a group and without unwanted coherence effects. Exponential effects are suspected in the improved operation of the programming. From a laymens point of view the maladjustment of substandard code could result in a factor of a thousand in such programs as Microsoft Works which can be speed intensive.

Modern computer programmers usually take the rule of thumb short computer code means fast computer program. This is an archaic philosophy that doesn't take into account the hardware of the computer. Typically hardware is a word that means equipment or large piece of machinery and in the average laymen or company doesn't realize that a small chip is such. The interwoven flow of data in a single chip has not been utilized for various reasons including both the presence of danger and the presence of legality.

For example cohering a billion electrons in such an environment can cause large wanted and unwanted electromagnetic fluctuations that could cause the chip to enhance its program or cause the chip harm or even destruction. Truly an unwanted virus in the form of a program could store information in the knicks and crannies of a modern chip so that em effects are localized in certain regions. This is to warn the programmer of an altered program that generates legality to its use.

Alternatively the storage of information as it traverses the nanowiring of the computer chip can be used to facilitate the speed and memory allocation due to the effects of one electron on another or on a local group. Indeed these effects can improve the programs efficiency by large factors up to billions or more. The user code which guides the flow of electrons is required to specify the flow of the individual electrons. The actual code that results in the efficiency is not necessarily the shortest piece of software that a professional programmer is required to present.

A challenge to a programmer is to write a seemingly unoptimal piece of software that is not necessarily the shortest one. This is complex and requires safeguards potentially. It is also machine dependent in that it will function with different quality on one chip than on the other. The computational cost is clearly a function of the degree of level of the computer code as it is assembled into machine language. The contribution here is to alter the usual computer code into one in which the program acts more efficiently without the coherence effect which could be shunned and caused by clocking two or more electrons in a neighborhood so that they are transmitted more quickly. Rather the code can be designed so that without coherence effects the information and implementation of the program transmits electrons in a more local nature as it is processed through the chip. The gain in this procedure is likely to be a factor of a thousand. Considering the commonality of certain programs such as office programs or machines and programs built for fast processing like numerical simulators the improvements could result in factors of a thousand or such.

The implementation of such a program is difficult for a single programmer to implement without advanced software tools. One could try compiling the program

in billions of possible ways to find an optimal program. Of course this program is not on the market to the general public and could result in compiling a program in a day instead of seconds. And this has obvious advantages to the user. Furthermore in a conventional program the memory allocation of the various call functions can be rearranged to enhance the speed and even accuracy of the program.

A point in note is the physical flaw in the Intel chip first noticed five years ago in that there is a computational bit flaw once in 10^9 of a divide operation. This can be circumvented perhaps with a square root in the frequency of occurrence by reassembling the code in a certain form.

The procedure of guiding the bits through the chip is nonuniversal and usually linear as understood by a chip designer who prefer a data here to there instead of a how from here to there. Rather a transcendental flow of information within the chip is required perhaps even requiring extra bits tagged onto an chirp of data to be transmitted so that it affects the flow of information in a seemingly inoptimal manner. This is very nonstandard in typical computer programs and appears inoptimal. However the extra bit could cause the memory allocation to occur differently in the hardware with a little redundancy. Even the slightest redundancy could exponentiate in the form of x^q with q on the order of millions. Clearly such a procedure is not obvious given the linearity of chip structure and the programmers inability to analyze a billion versions of seemingly inoptimal code. There are various ways to change the flow of information with nonstandard assembly [1]

However an assembler could be made to fabricate an assembled code from typical code that would store and transmit information in the best possible manner and also the safest. Safe here means that the program wont overuse certain areas of the chip meaning groups of electrons too much. This is to point out that improving the gigahertz processing can be terahertz on your laptop with something as simple as using a seemingly counterintuitive programming style with the use of various techniques including transcendental operations.

The use of polytopes can be efficient technique to simulate a chip. Large companies could easily optimize their computer programs for users with specific computer chips such as AltaVec or Intel or others without increasing the coherence effects at all which would result in speed ups that could be exponential without any side effects to your computer. Factors of a thousand or more are expected for generic programs and should certainly be worth the investment for time consuming operating systems such as Windows which is not time sensitive but rather for packages such as Maple of Mathematica of which there are hundreds of thousands of interfaces. As a an-

othe point bread and butter packages such as radar operations usually optimize the hardware blocks including chips and FPGA and ASIC designs with routing of information centralized on point to point rather than data specific type that could enhance the flow of information through their individual chips. A modern radar could have multiple chips including those of FPGAs or ASICs in series and the improvement in efficiency which is algorithmic specific will further exponentiate which is perhaps more difficult with the field reprogrammable.

A recommendation is the construction of a random sampling of assemblers with things like put an extra bit here or there and further operations so that a conventional chip will compile differently and improve both the accuracy and efficiency of a generic public program. It will be specific to individual chips designed for the masses and could incorporate some higher level operations if the design of the chip is included. Perhaps a factor of a million could be achieved in performance speed of your desktop application which leads to many man hours wasted removed for the user. The potential payoff truly warrants an investigation and construction of a new compiler from big industries.

It should also be noted that is probabilistically possible to trap an electron at a specific site in the chip itself. This trapping is useful for a coherence effect dependent on the program that could speed up the electrons by factors of millions. This is potentially dangerous and can be used to deform specific information within the memory allocation so that certain types of information are physically inaccessible without specific data unsecuring it. Physically could be to garble the information or harm the chip. Likewise programs could be developed against this harm from threat aware viruses. Programs could also be made to operate in extreme environments including satellites that encounter specific types of cyclic radiation including solar flares or in quantum computers which radiate.

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References

- [1] Gordon Chalmers, unshared.